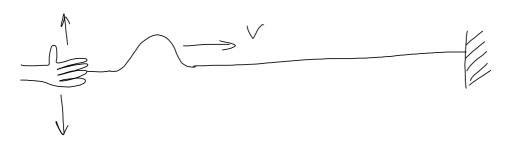


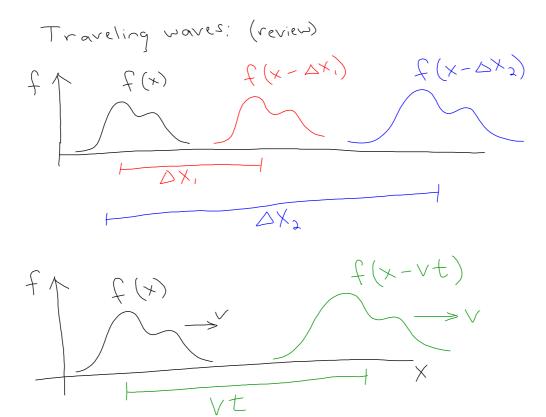
longitudinal wave

m6 does not move immediately

i.e. it takes time for the disturbance to propagate

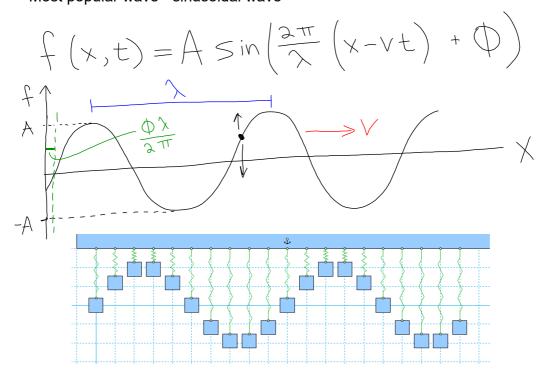
Another example: transverse wave



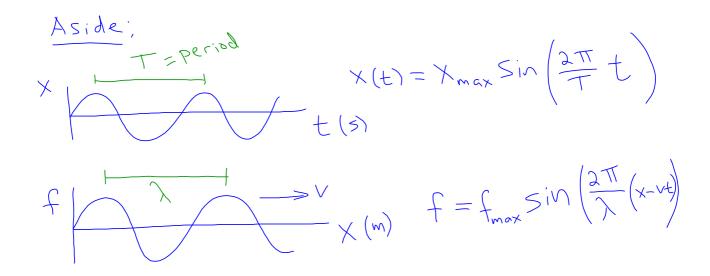


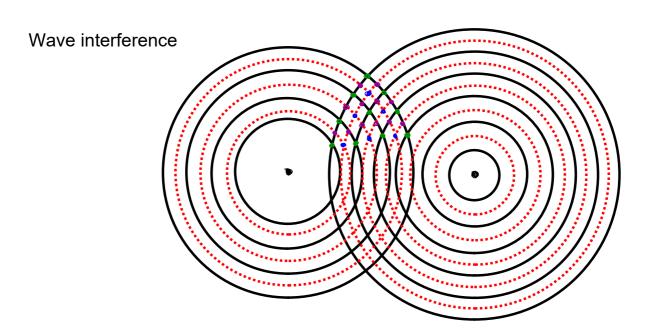
Waves are functions of space and time that can be written:

Most popular wave - sinusoidal wave



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When a peak meets a peak: constructive interference - amplitudes combine (green dots)

When a valley meets a valley: (negative) constructive interference - (negative) amplitudes combine

(blue dots)

When a peak meets a valley: destructive interference - amplitudes (partially) cancel out

(purple dots)

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